

Title (en)

HYPEREUTECTIC ALUMINIUM-SILICON ALLOY PRODUCT FOR SEMISOLID FORMING

Title (de)

PRODUKT AUS ÜBEREUTEKTISCHER ALUMINUM-SILIZIUM LEGIERUNG ZUR VERFORMUNG IN HALBFESTEM ZUSTAND

Title (fr)

PRODUIT EN ALLIAGE ALUMINIUM-SILICIUM HYPEREUTECTIQUE POUR MISE EN FORME A L'ETAT SEMI-SOLIDE

Publication

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Application

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Abstract (en)

[origin: US6200396B1] This invention relates to a eutectic or hypereutectic aluminium-silicon alloy product suitable for thixoforming, comprising (by weight) 10 to 30% silicon and, if applicable, copper (<10%), magnesium (<3%), manganese (<2%), iron (<2%), nickel (<4%), cobalt (<3%) and other elements (<0.5% each and 1% in total), the microstructure of which is composed of primary silicon crystals, equiaxed type aluminium dendrites less than 4 mm in size and a eutectic composed of eutectic silicon grains and eutectic aluminium grains less than 4 mm in size.

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US 6200396 B1 20010313; AT E245714 T1 20030815; AU 3055600 A 20000807; BR 0007637 A 20011106; CA 2360673 A1 20000727; CZ 20012658 A3 20020814; DE 60004010 D1 20030828; EP 1147237 A1 20011024; EP 1147237 B1 20030723; FR 2788788 A1 20000728; FR 2788788 B1 20020215; JP 2002535488 A 20021022; NO 20013576 D0 20010719; NO 20013576 L 20010914; PL 349340 A1 20020715; SK 10002001 A3 20020205; WO 0043559 A1 20000727

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